

UniVerse®

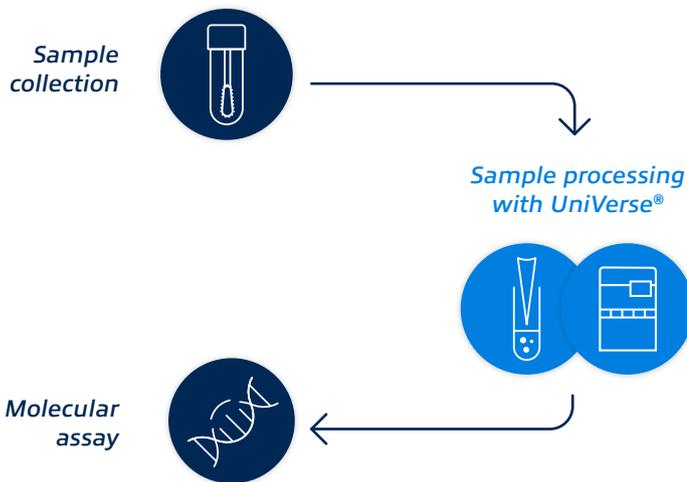
# Flexible and open solution for molecular testing sample preparation





# UniVerse®

UniVerse® automates sample preparation for molecular testing: tube decapping and recapping, vortexing, spinning, swab handling, barcode identification, and liquid transfer to secondary tubes or assay plates.[1]



### ID scan

UniVerse® recognizes inbound samples ID matching them with LIS data.

### Vortexing

Different vortexing protocols based on the sample type.

### Spinning

UniVerse® centrifuge allows to collect samples from the sponge of our UriSponge™ and LolliSponge™ collection devices.

### Decapping

Two independent robots for the simultaneous decapping of primary or secondary tubes, depending on the protocol.

### Aliquoting

The third pipettor-equipped arm transfers sample aliquots to tubes or assay plates.

### Recapping

The robotic arms recap both primary and secondary tubes and put them in place.

### ID labeling & reconciliation

UniVerse® applies a custom label to output tubes and synchronizes the ID matching with LIS.

## Fields of application

### Preanalytics made different



STIs & HPV



Respiratory diseases



Hospital Acquired Infections



Genetics and microbiome



Gastrointestinal infections



Screening

## Benefits

### A seamless integration



#### *Input and output flexibility*

UniVerse® processes multiple tube sizes and different swab and sponge types **without requiring the manual removal of the swab**; moreover, it can also process single tubes with multiple swabs pooled inside. UniVerse® comes with a customized assay plate holder to fit your specific assay plates.



#### *Continuous Loading and Unloading*

Easy access for a continuous specimen loading and downloading without pausing the instrument.



#### *Triplicate your efficiency*

UniVerse® processes up to 130 tubes/hour or 220 96-well plate samples/hour.



#### *Don't lose track*

Barcode reading, labeling, barcode printing, ID synchronization with LIS and output ID mapping on an intermediate file: your samples are always in sight.



#### *Built to care*

Keep your staff and sample contamination-free. The HEPA BSL-2 filtration system grants the complete safety of your staff.



#### *Your workflow, improved*

Reducing manual touchpoints and hands-on time by 90%, UniVerse® avoids the risk of cross-contamination and errors.



#### *Compatibility First*

No matter what downstream molecular biology assays you have, UniVerse® will pair harmonically with it.



Liquid-Based Microbiology

UniVerse® best allies

Laboratory automation is only a part of Copan's comprehensive approach to Preanalytics. Our line of liquid-based microbiology collection and transport devices can be paired with UniVerse®, unlocking its full potential.



Pooling modes and PodSwab™

Single, mini, and giant pools

Sample pooling allows testing four different patients in one sample, increasing the testing volume while using fewer materials in low incidence diseases. Paired with UTM PodSwab™ pooling tubes, UniVerse® pooling modes enable the creation of "Giant pools" with up to 20 patients per sample.



Operational modes

# 1 automation, 4 protocols

UniVerse® has not one, not two, but four different operational modes.



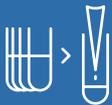
**Tube to tube**

From 1 primary sample to 1 secondary tube.



**Tube to plate**

From 1 primary sample to 1 secondary well.



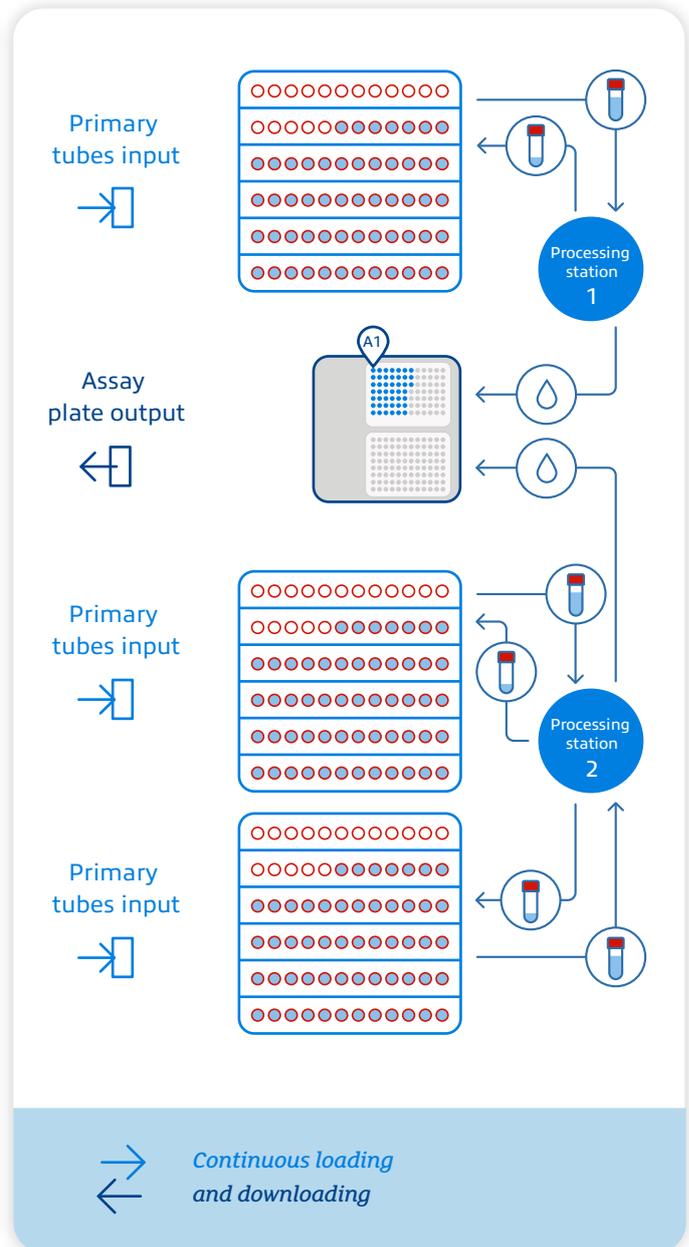
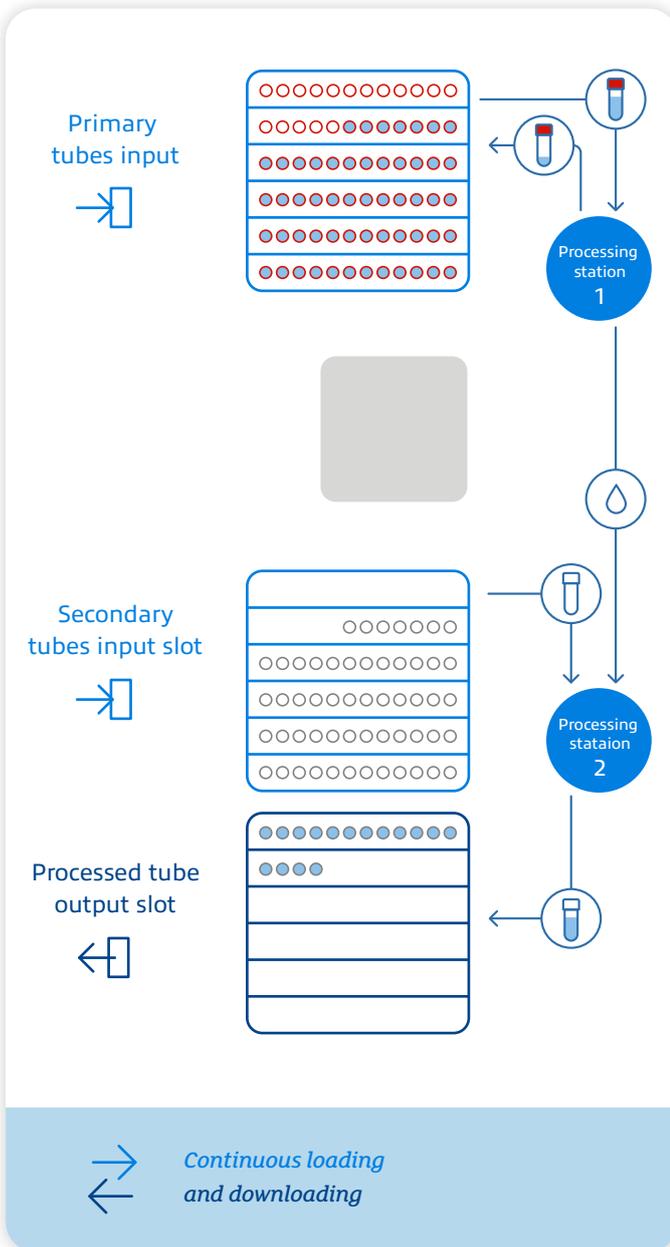
**Tube pooling**

Pooling multiple primary samples into 1 secondary tube.



**Plate pooling**

Pooling multiple primary samples into 1 single plate-well.



## Output containers compatibility

### Designed with molecular assays in mind

UniVerse® is compatible with capped and uncapped, with and without swab, secondary tubes with 10 to 16mm diameter and 70 to 106 mm height.

For example, UniVerse® can prepare:

- o Roche COBAS® 6800/8800 tubes
- o Prepares Hologic® PANTHER® tubes
- o and many others

UniVerse® plate holder can be customized on request to fit your specific assay plate.

For example:

- o ROCHE MagNA Pure
- o Seegene STARlet/NIMBUS
- o Thermo Fisher KingFisher™
- o TANbead Maelstrom™
- o and many others

## Side uses

### Molecular biology is just the beginning

UniVerse® was born to address the needs of traditional Molecular biology, but you can easily bend its capabilities to streamline different procedures as:

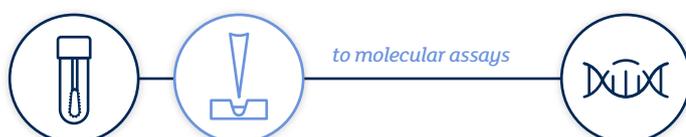
Preparation of antigen testing tubes



Preparation of tubes or plates for banking



Preparation of plates for direct amplification



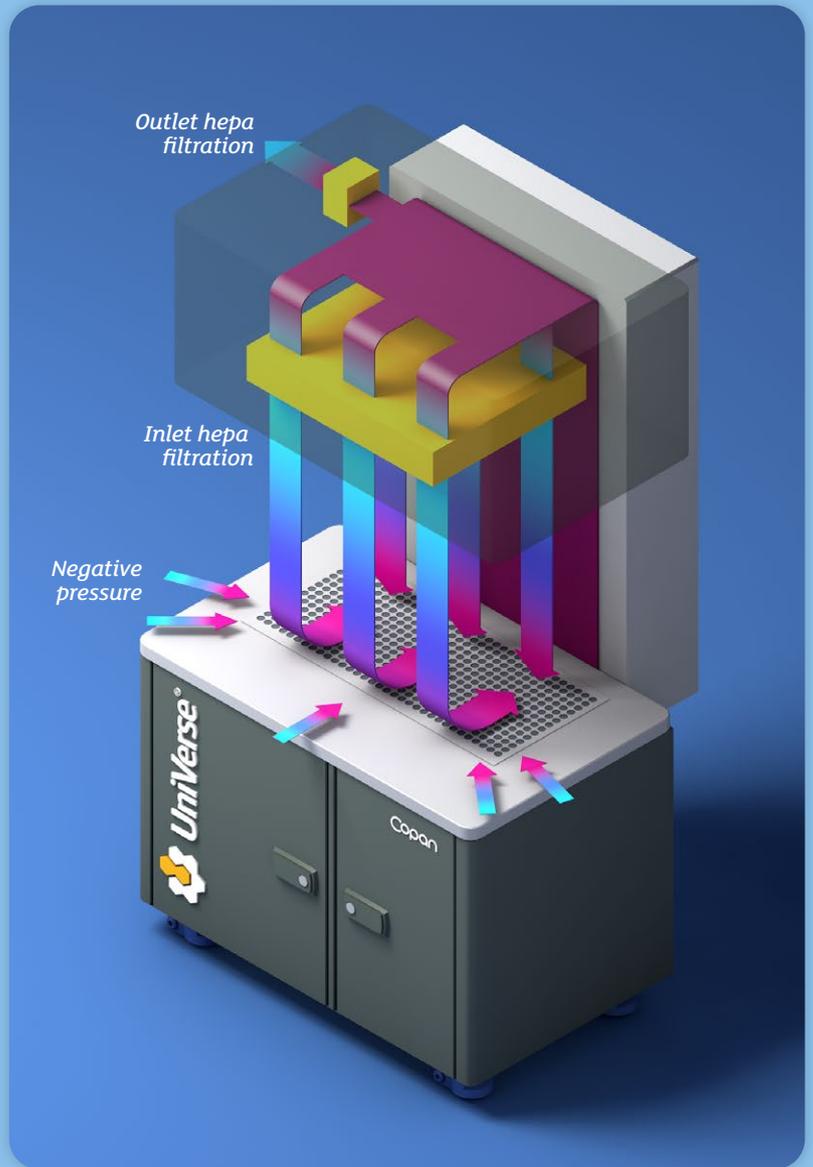
Safety

### Your wellbeing at heart

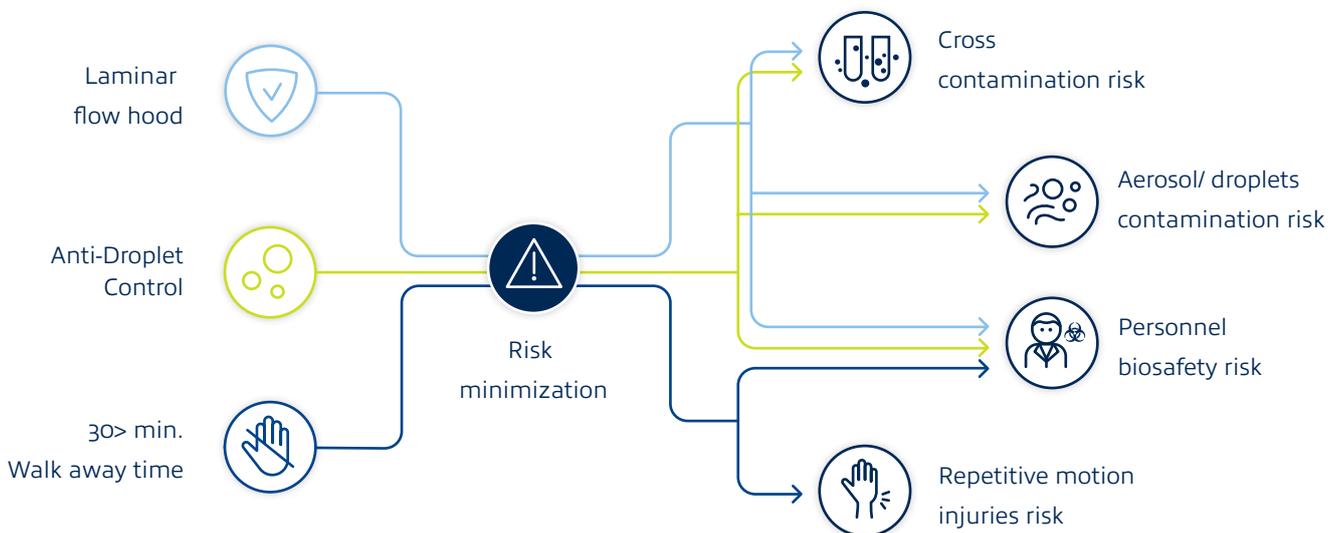
UniVerse® hood is equipped with a vertical laminar flow and a dual HEPA filter to circulate and purify incoming and outgoing airflows.

The anti-droplet control on UniVerse® pipettor avoids the spread of dangerous droplets and aerosol.

These features prevent the risk of contamination of both the environment and the sample and, combined with the most repetitive actions delegated to UniVerse®, minimize the safety risks for the lab personnel, including repetitive motion risks.



Bsl-2 grade  
Laminar-flow hood





## Components

### Tech based quality

- 1 Three independent robotic arms to manage:
  - Primary containers decapping and recapping
  - Secondary containers decapping, recapping, and labeling
  - Pipetting and aliquoting from primary to secondary containers

- 2 Class II biosafety laminar flow hood

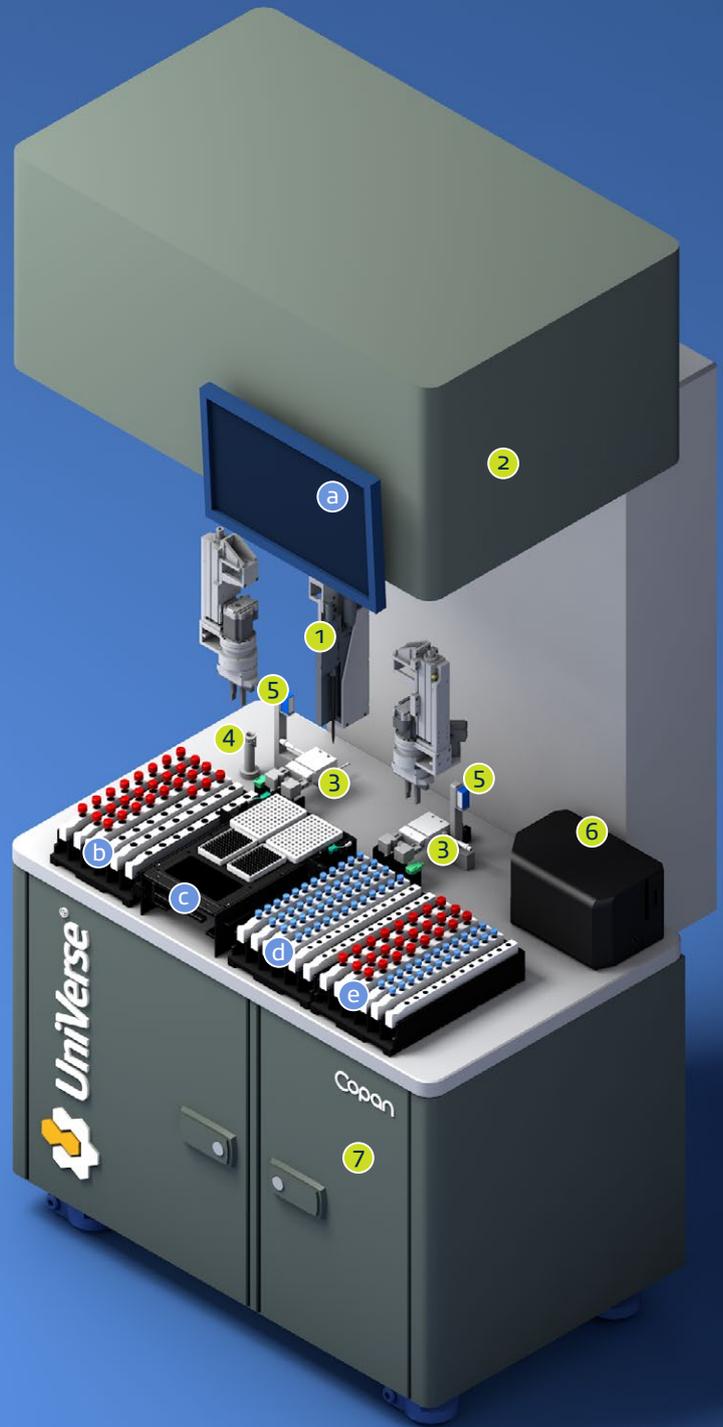
- 3 Double vortex station

- 4 Centrifuge

- 5 Integrated barcode readers

- 6 Label printer for secondary tubes

- 7 Auto-closing tip waste bin



- a Touchscreen user interface monitor

- b Input racks for primary containers

- c Assay plates and tips rack

- d Input racks for secondary containers, convertible to Input for primary tubes on assay plate protocols

- e Output racks for secondary containers, convertible to Input for primary tubes on assay plate protocols

## Features summary



## Technical informations

Possible Inoculation Volumes	<i>From 10µl to 1000µl</i>	Dimensions	<i>W 1300 / D 988 / H 2334</i>
Liquid Handling Accuracy	<i>1000 µl: ≤ 1% 100µl: ≤ 2%</i>	Weight	<i>617 Kg</i>
Tips	<i>RNase and DNase free</i>	Noise Emissions	<i>Max 55 Db</i>
Filtration type	<i>HEPA</i>	Thermal Output	<i>2900 BTU</i>
Biosafety certification	<i>Field cert. NSF/ANSI 49 Class II</i>	Peak Power Consumption	<i>1100 W</i>

[1]. In order to grant the reliability of the diagnostic results to which the systems described in this brochure contribute and allow the safe and correct functioning of the instruments themselves, spare parts, and technical support must be provided by Copan (or its authorized distributors). Any third party's containers, culture plates and consumables to be used on the instruments must be approved in writing by Copan.

Limitations may apply: Please refer to Copan's social technical documentation.





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**Copan Wasp s.r.l.**  
Via A. Grandi 32,  
25125 Brescia, Italy

t | f +030 2687218  
@ | [wasp@copangroup.com](mailto:wasp@copangroup.com)  
[www.copangroup.com](http://www.copangroup.com)